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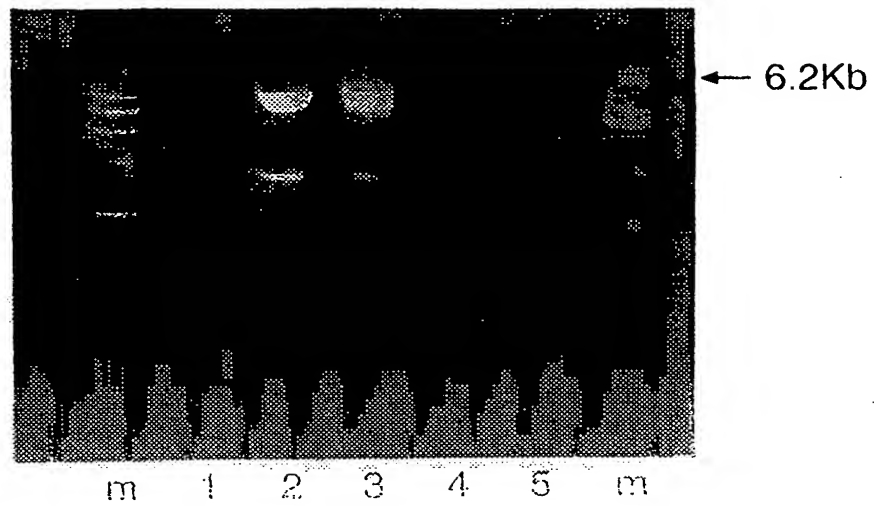


FIG. 1

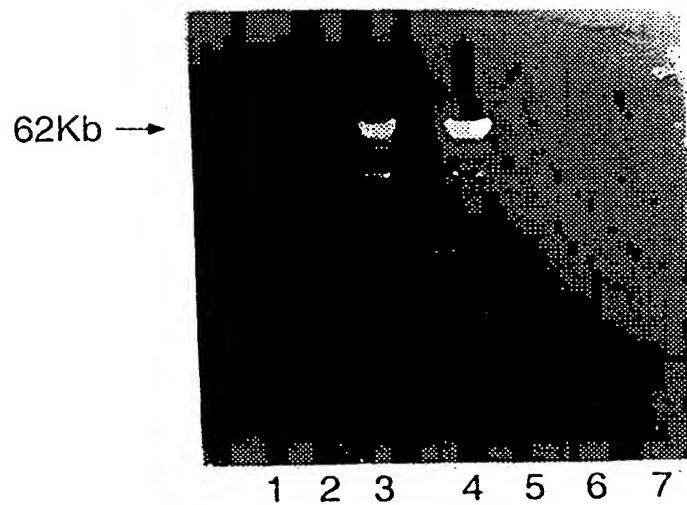
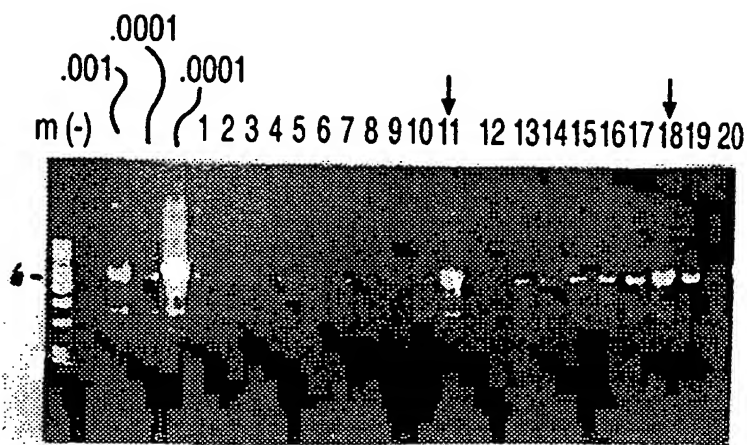
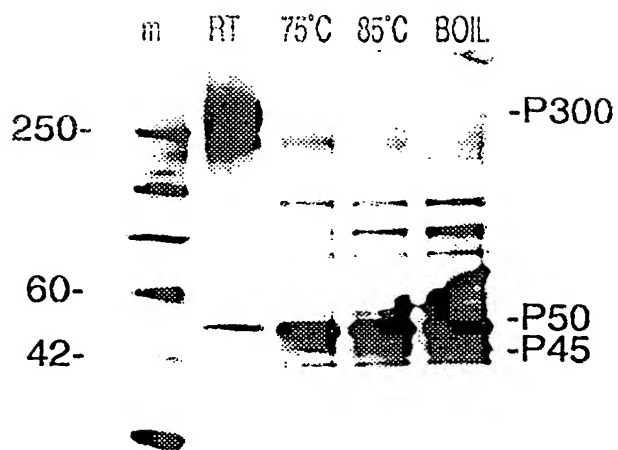
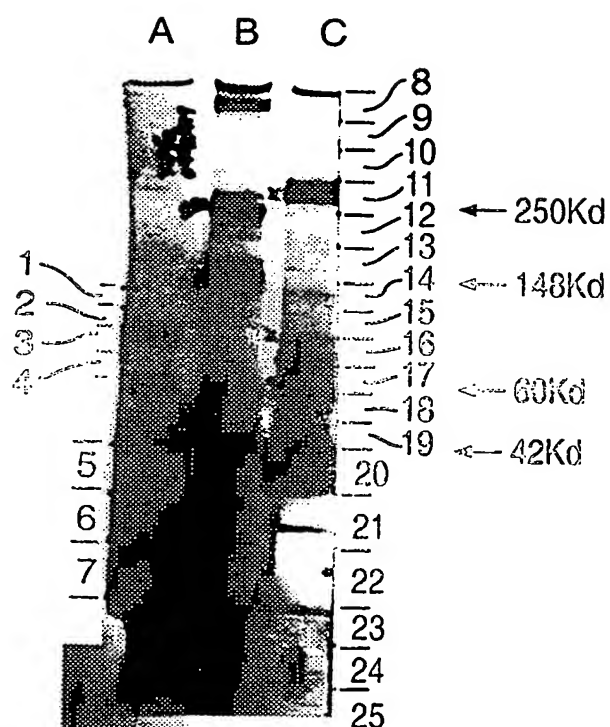


FIG. 2

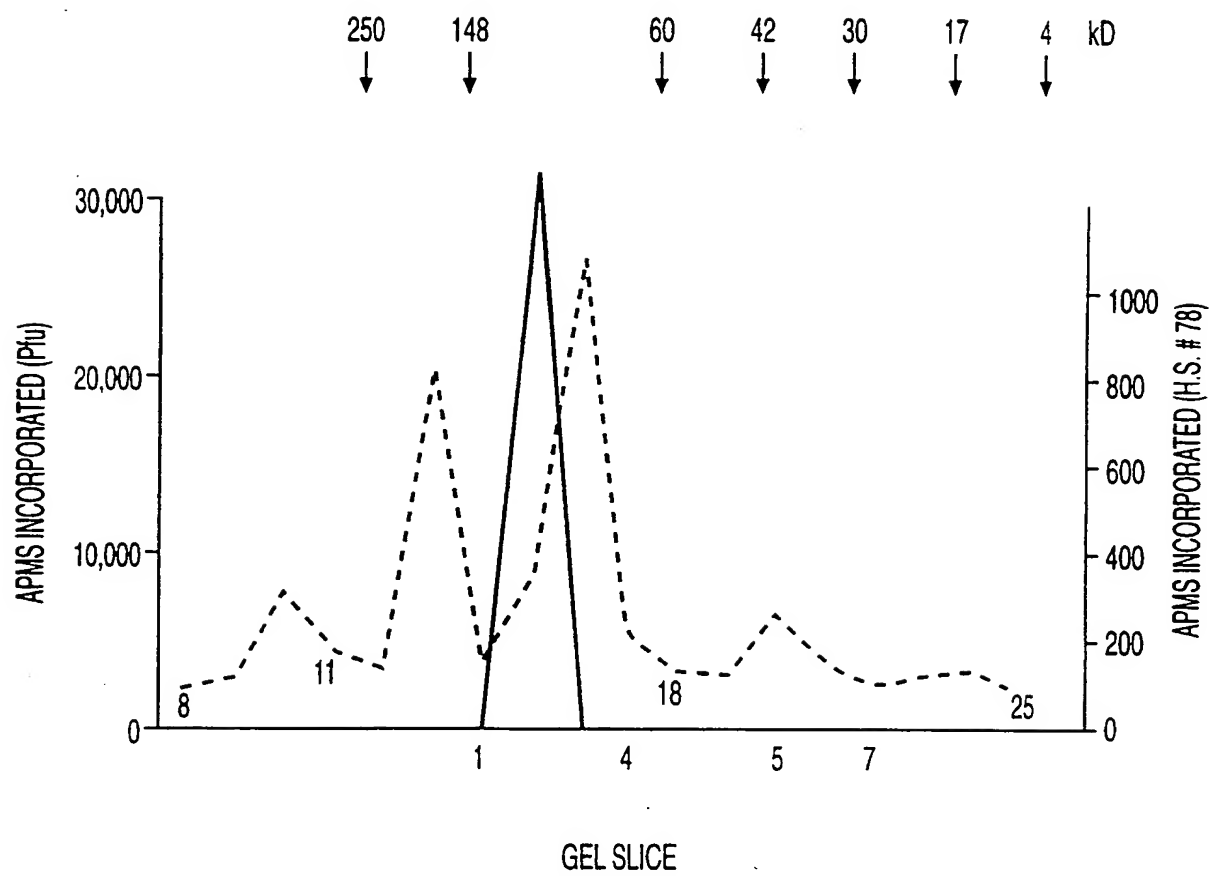
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**FIG. 3****FIG. 7**

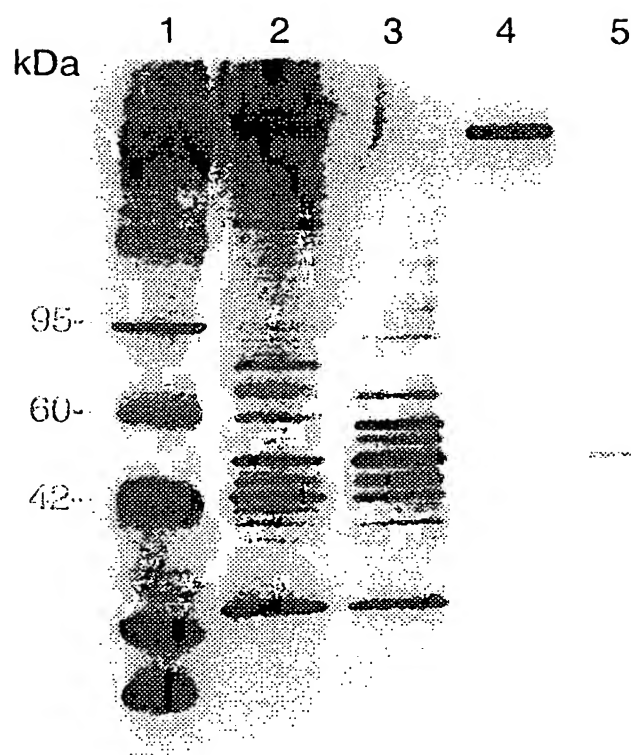
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**FIG. 4**

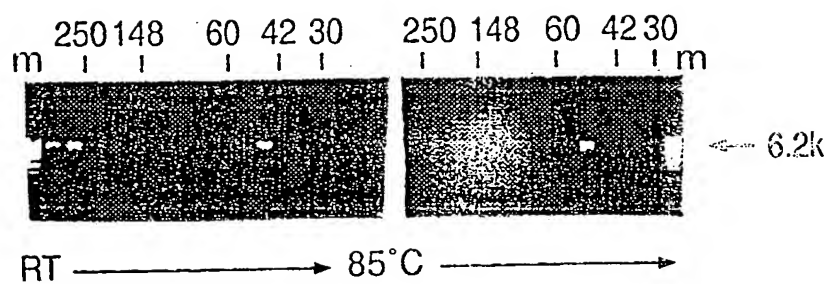
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**FIG. 5**

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**FIG. 6**

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**FIG. 8**

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FIG. 9

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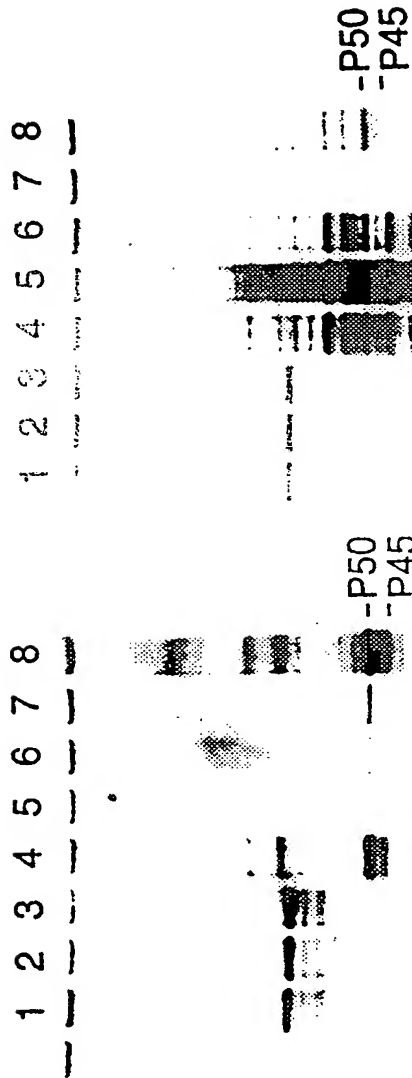
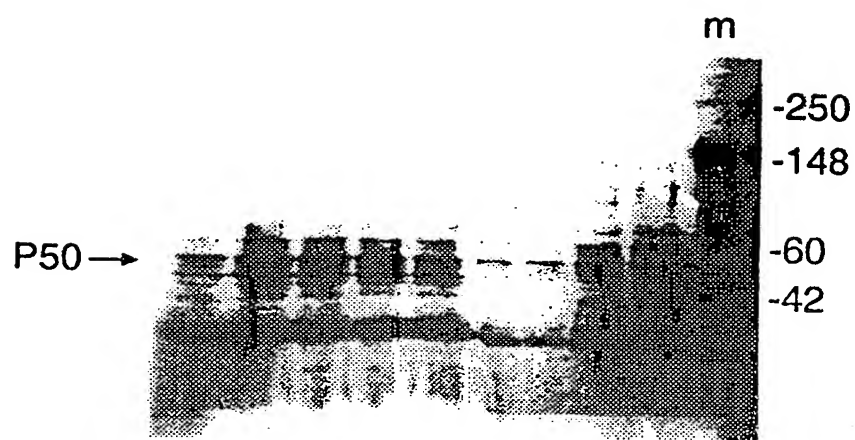
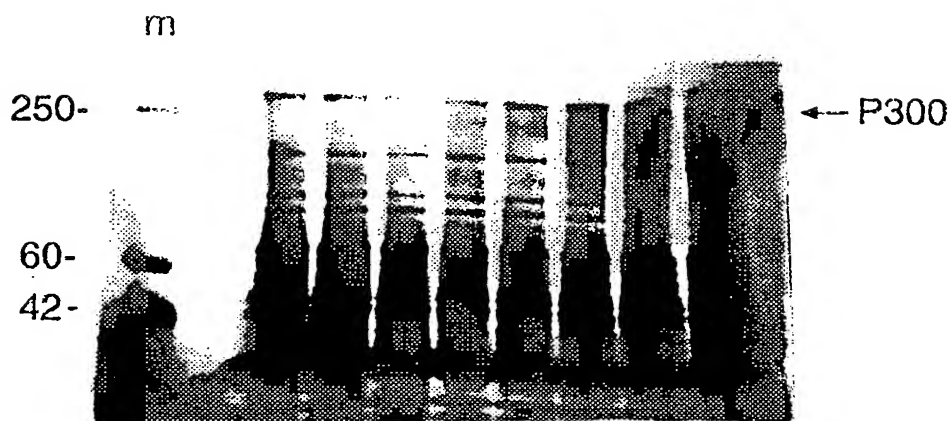


FIG. 10

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**FIG. 11A****FIG. 11B**

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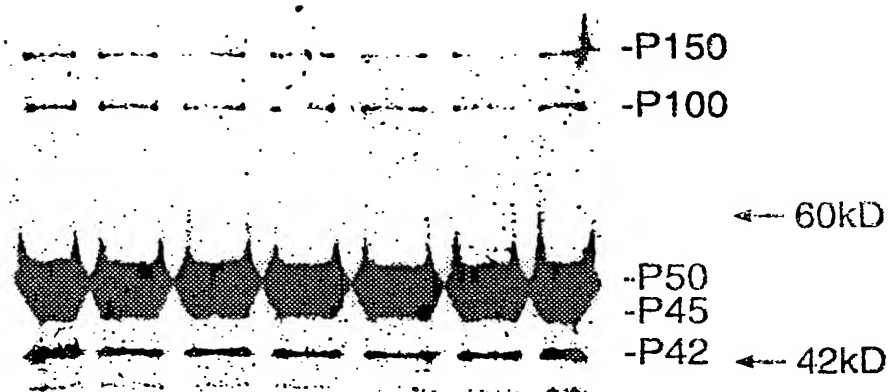
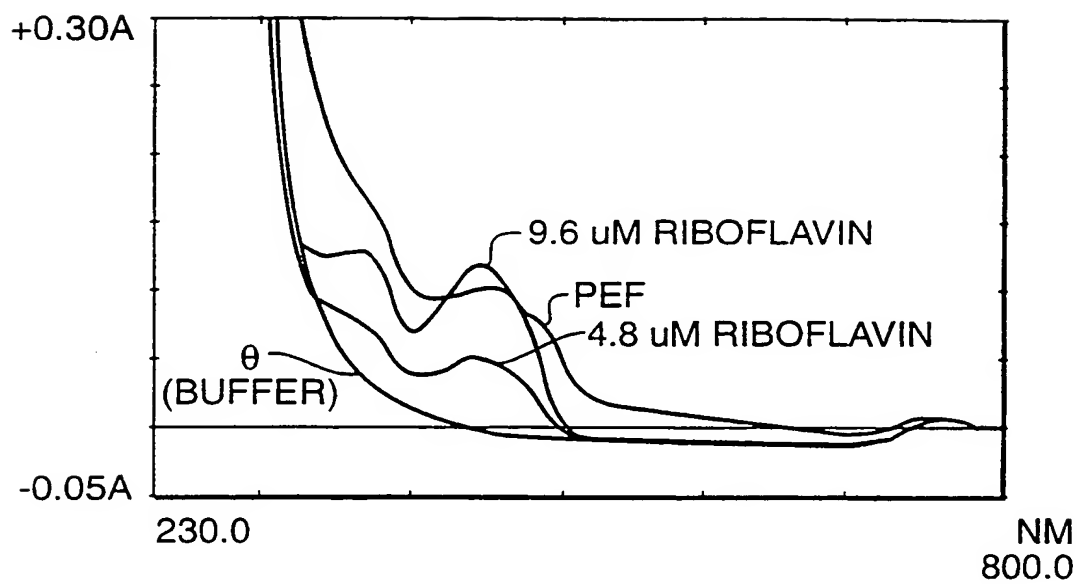


FIG. 12

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**FIG. 13**

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PEF LOT 52			PEF LOT 49			CLONE 1			CLONE 23		
NONE	7	0.7	0.2	7	0.7	0.2	1 μ (1/10)	1 μ (1/10)	5 μ (1/10)	1 μ (1/10)	5 μ (1/10)

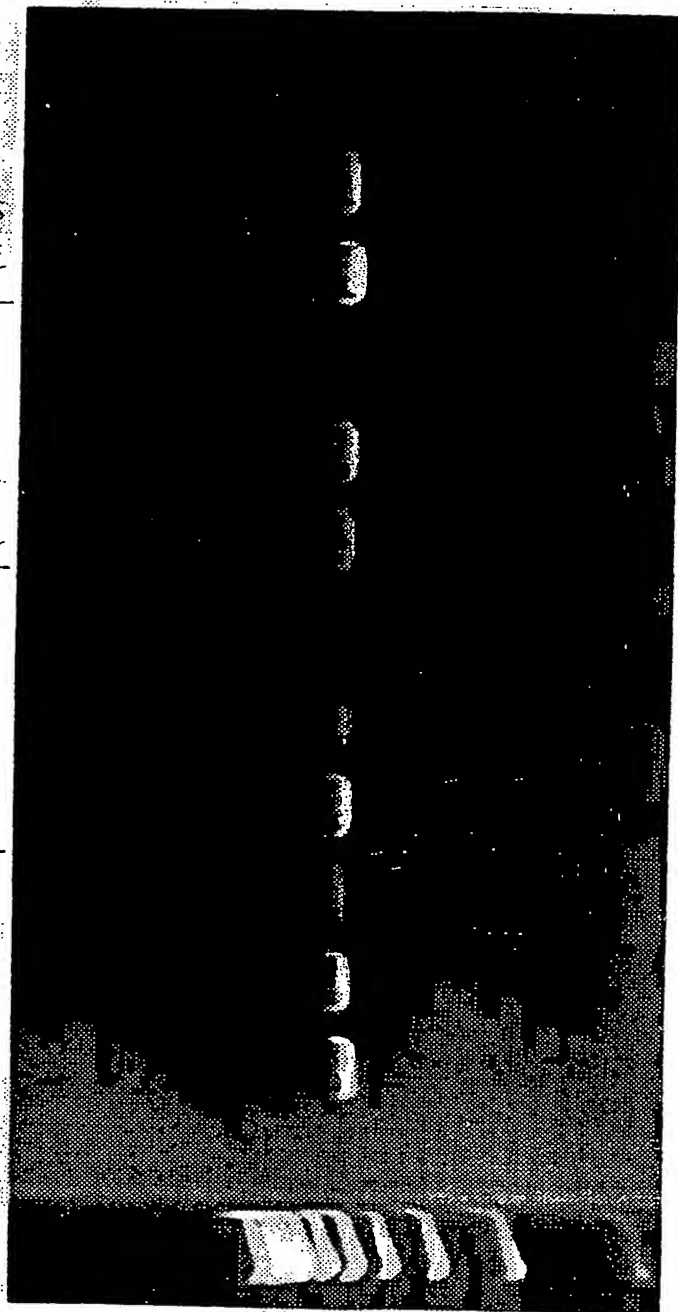
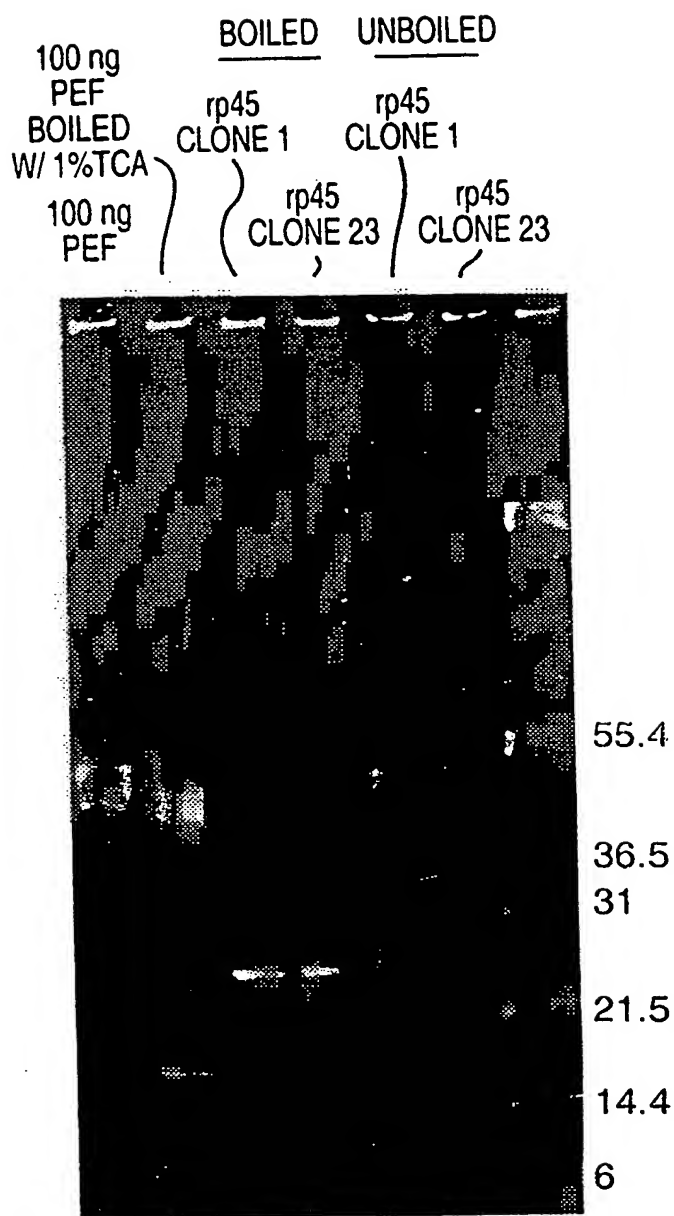
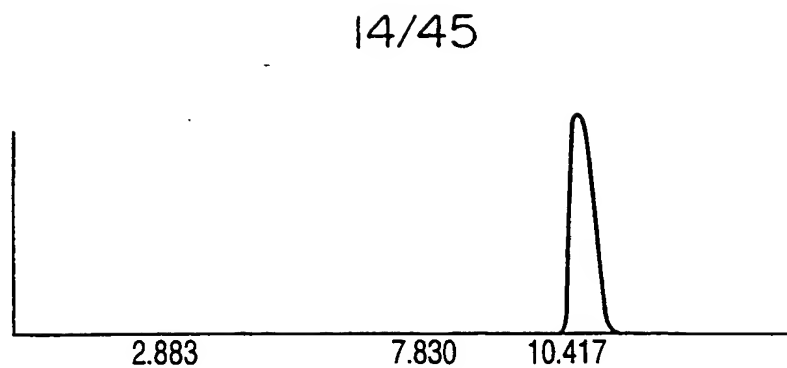
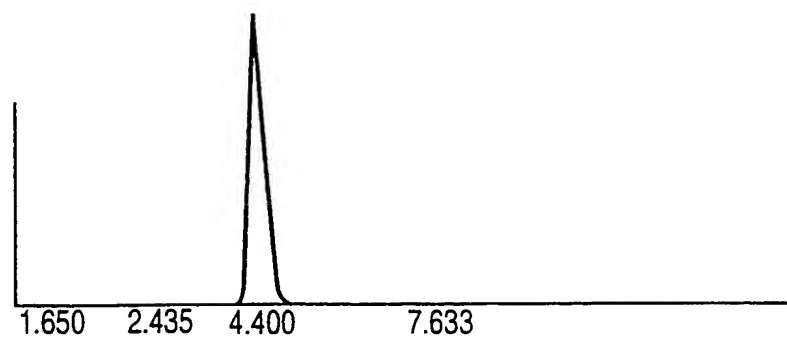
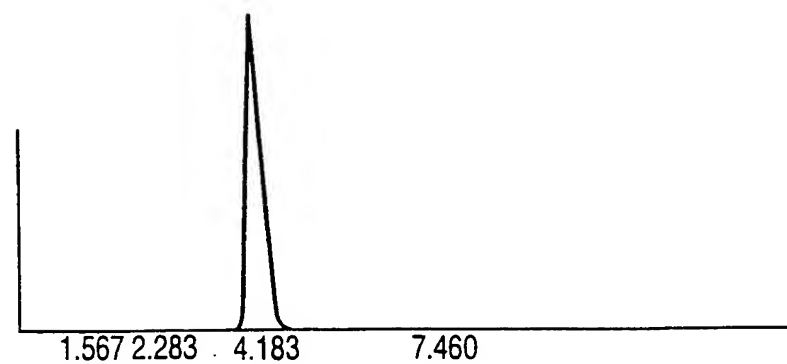


FIG. 14

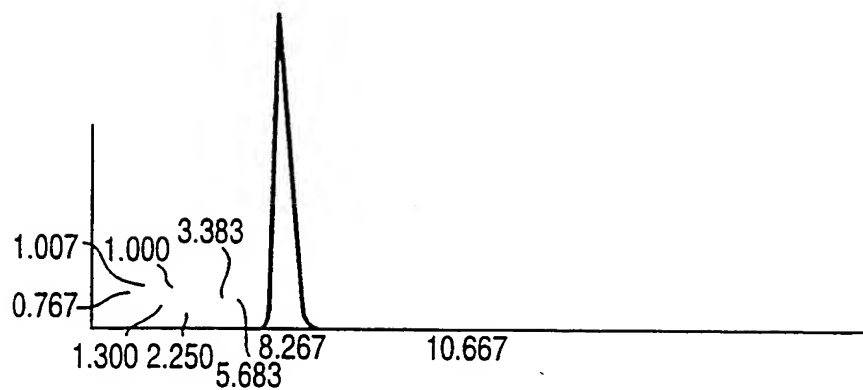
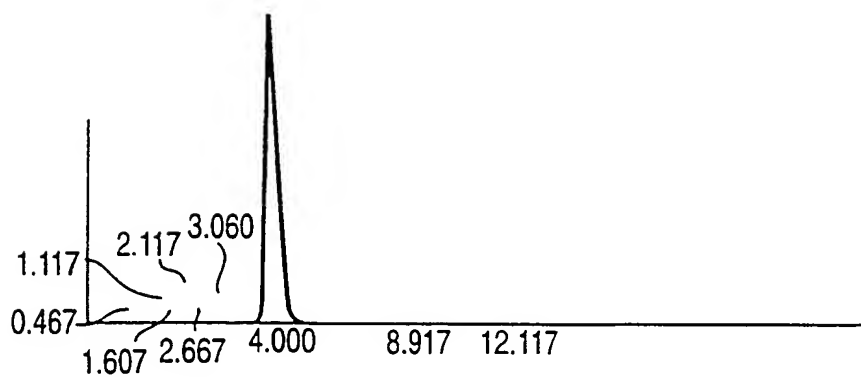
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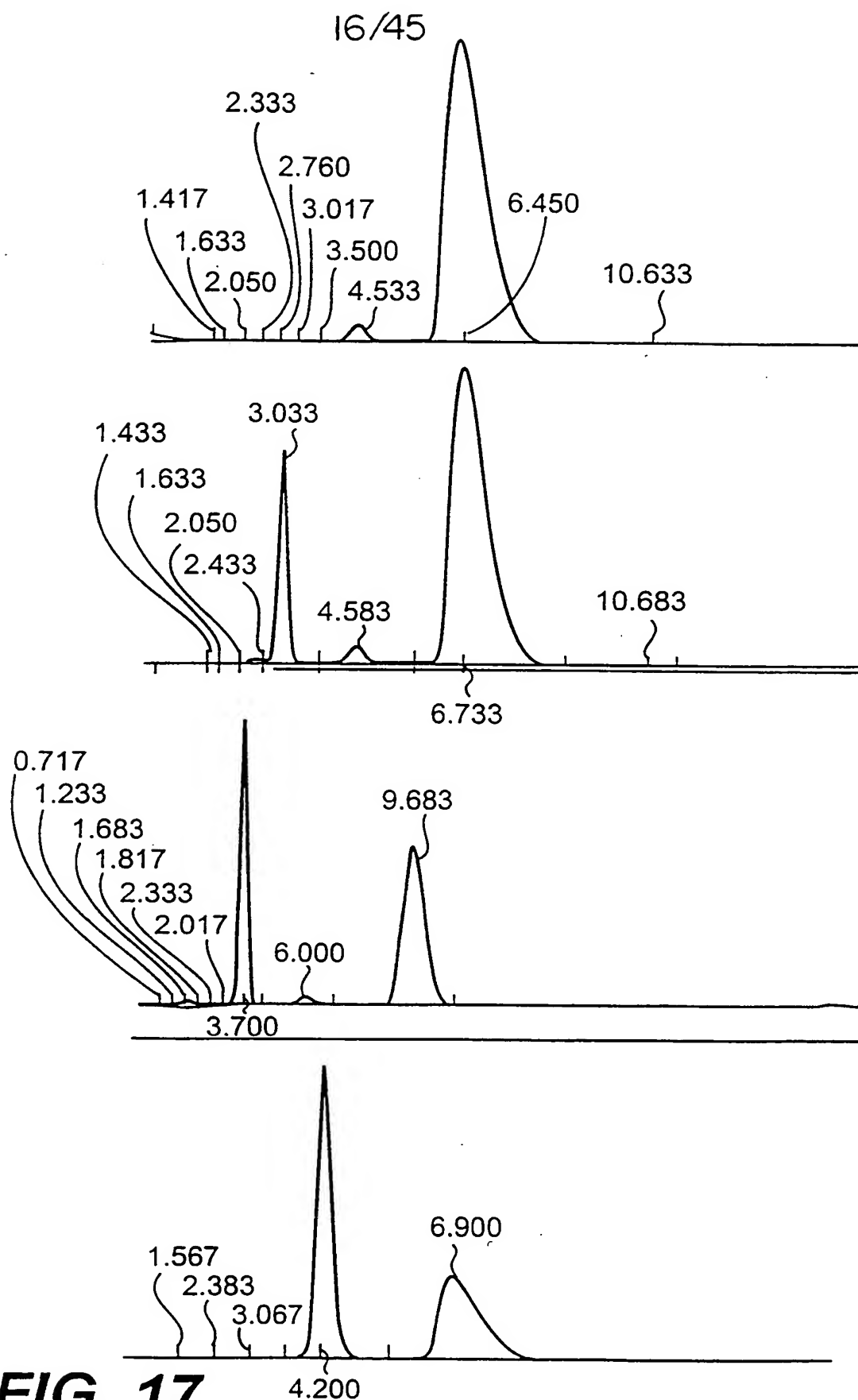
**FIG. 15**

SUBSTITUTE SHEET (RULE 26)

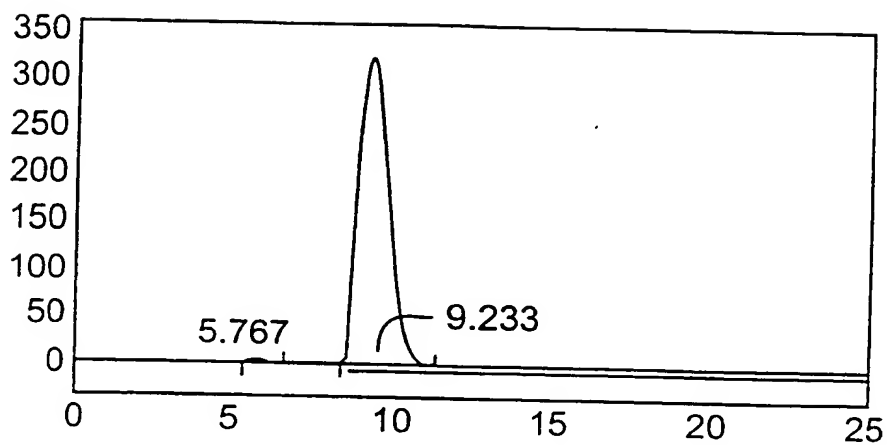
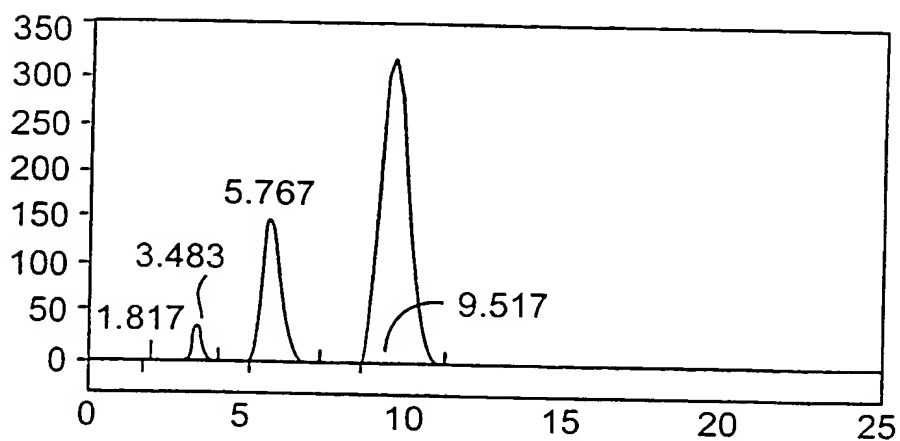
**FIG. 16A****FIG. 16B****FIG. 16C**

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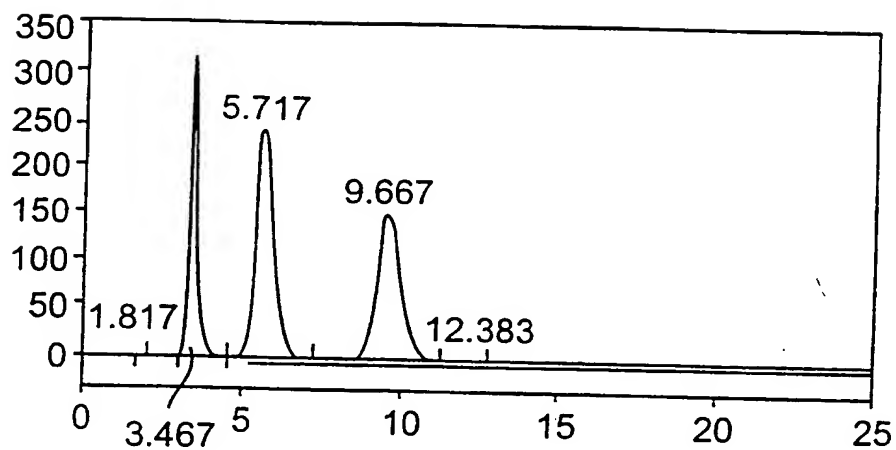
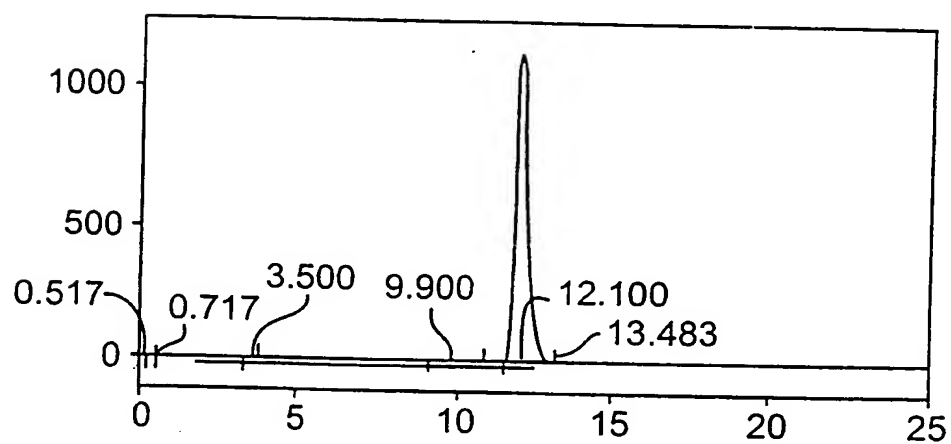
**FIG. 16D****FIG. 16E**

**FIG. 17**

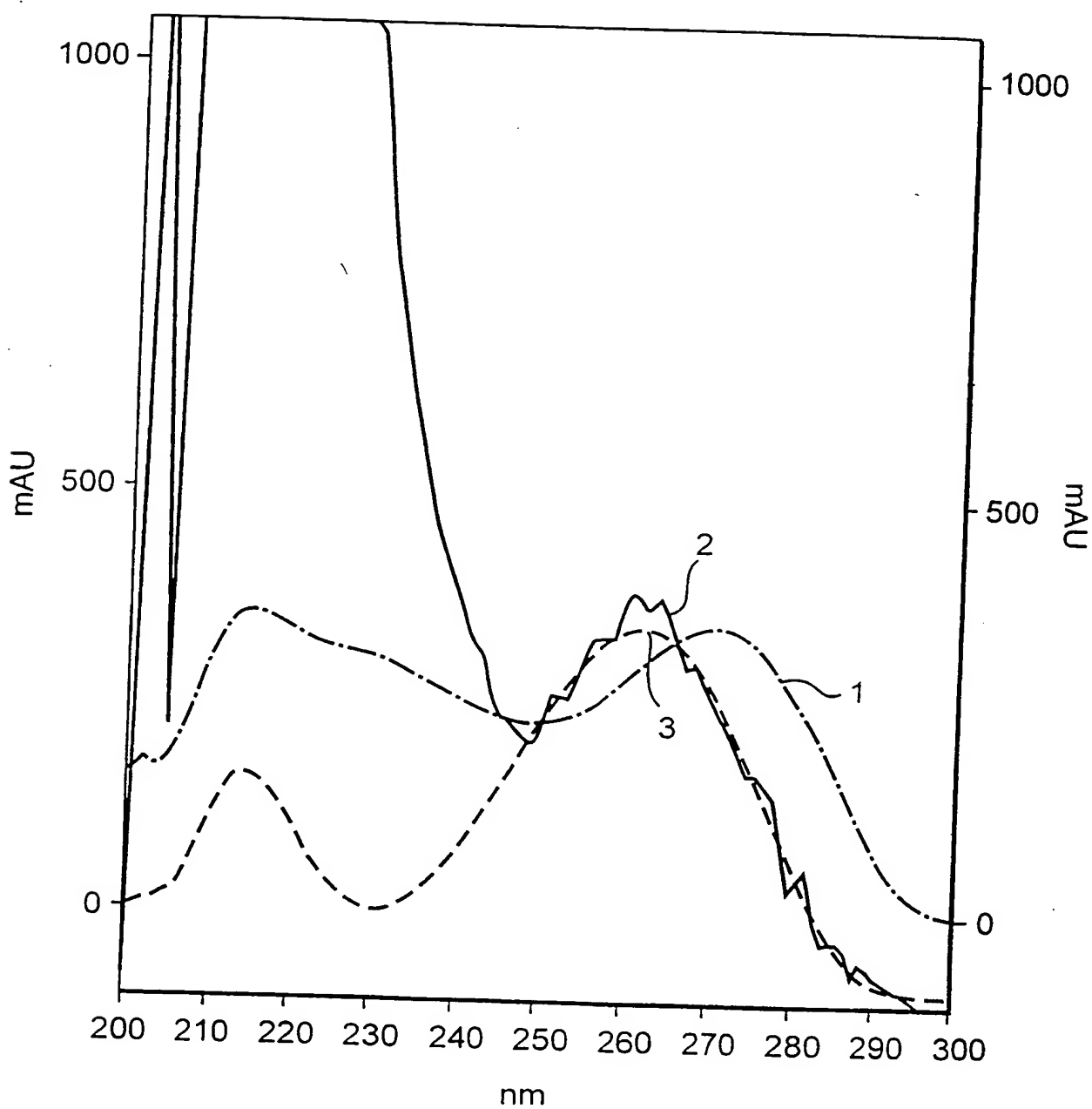
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**FIG. 18A****FIG. 18B**

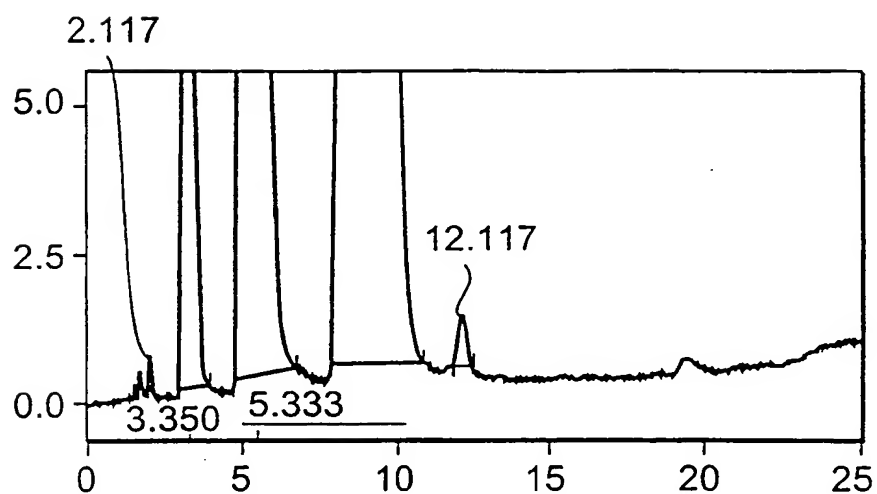
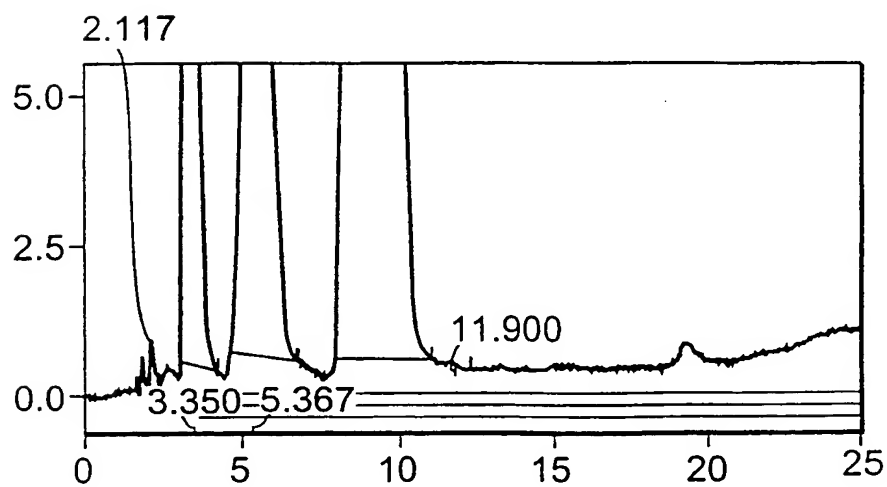
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**FIG. 18C****FIG. 18D**

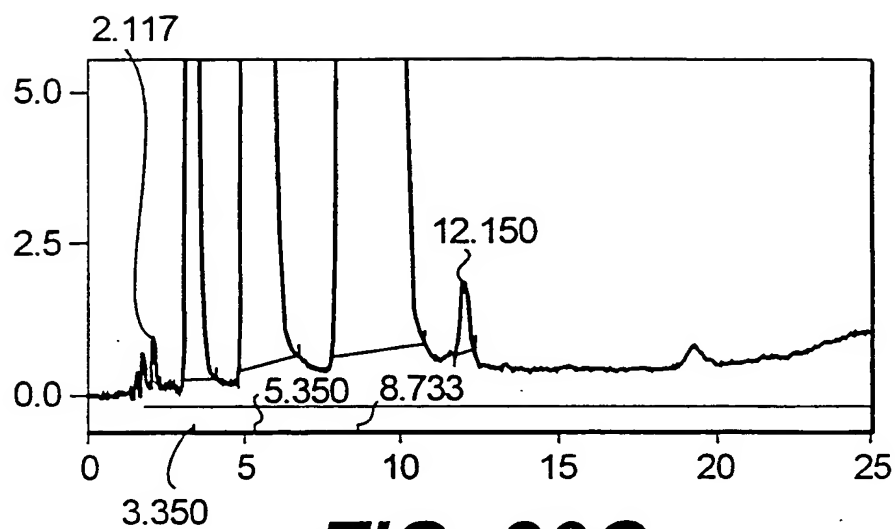
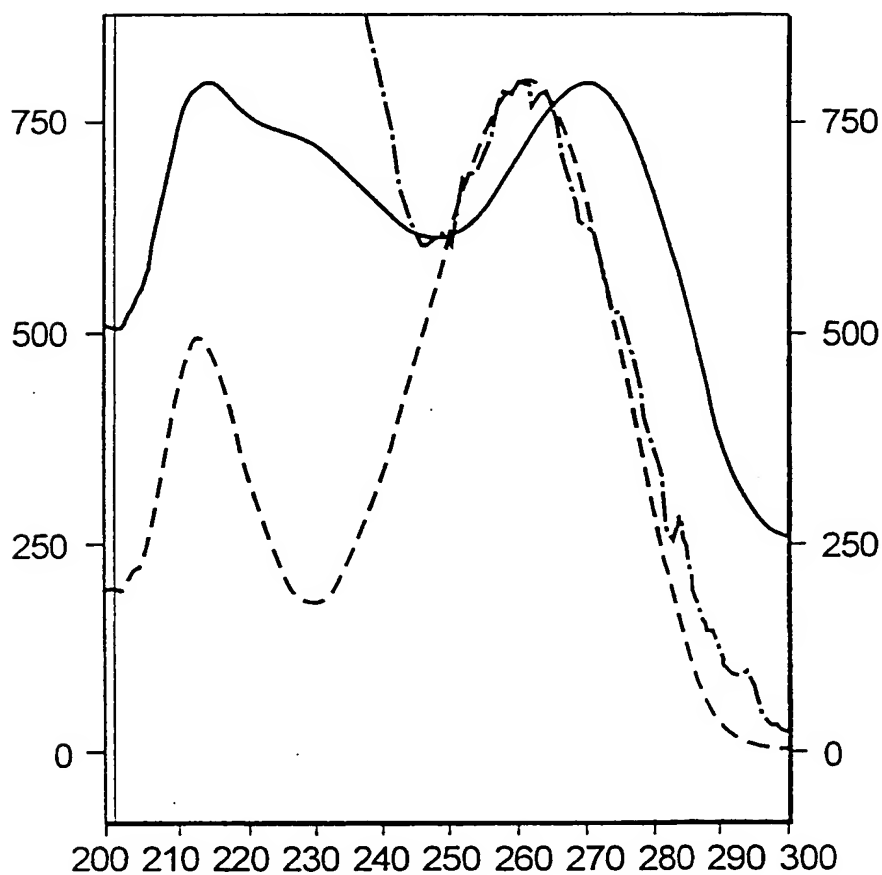
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**FIG. 19**

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**FIG. 20A****FIG. 20B**

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**FIG. 20C****FIG. 20D**

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1 2 3 4 5 6 7 8 9 10 11 12 13

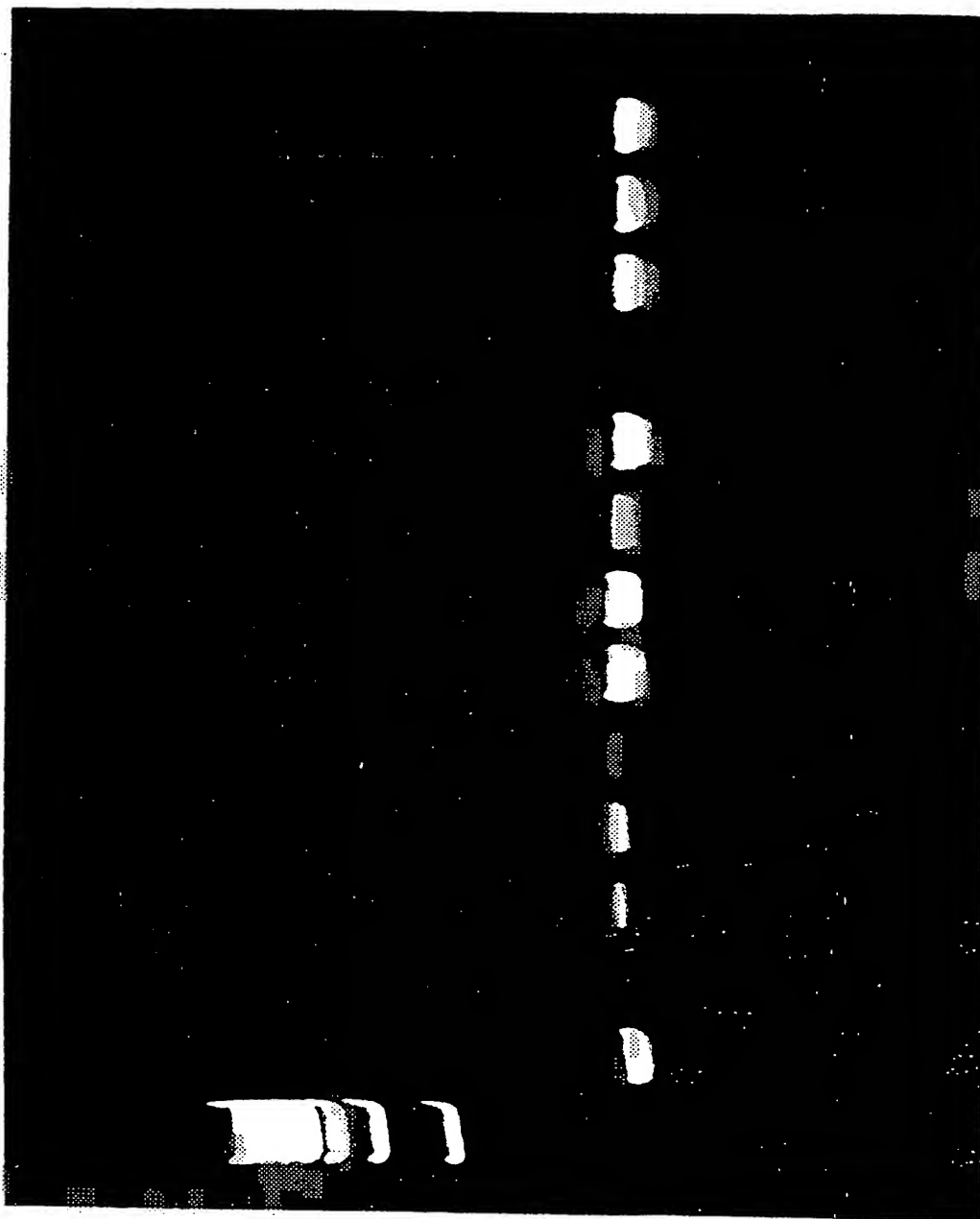


FIG. 21

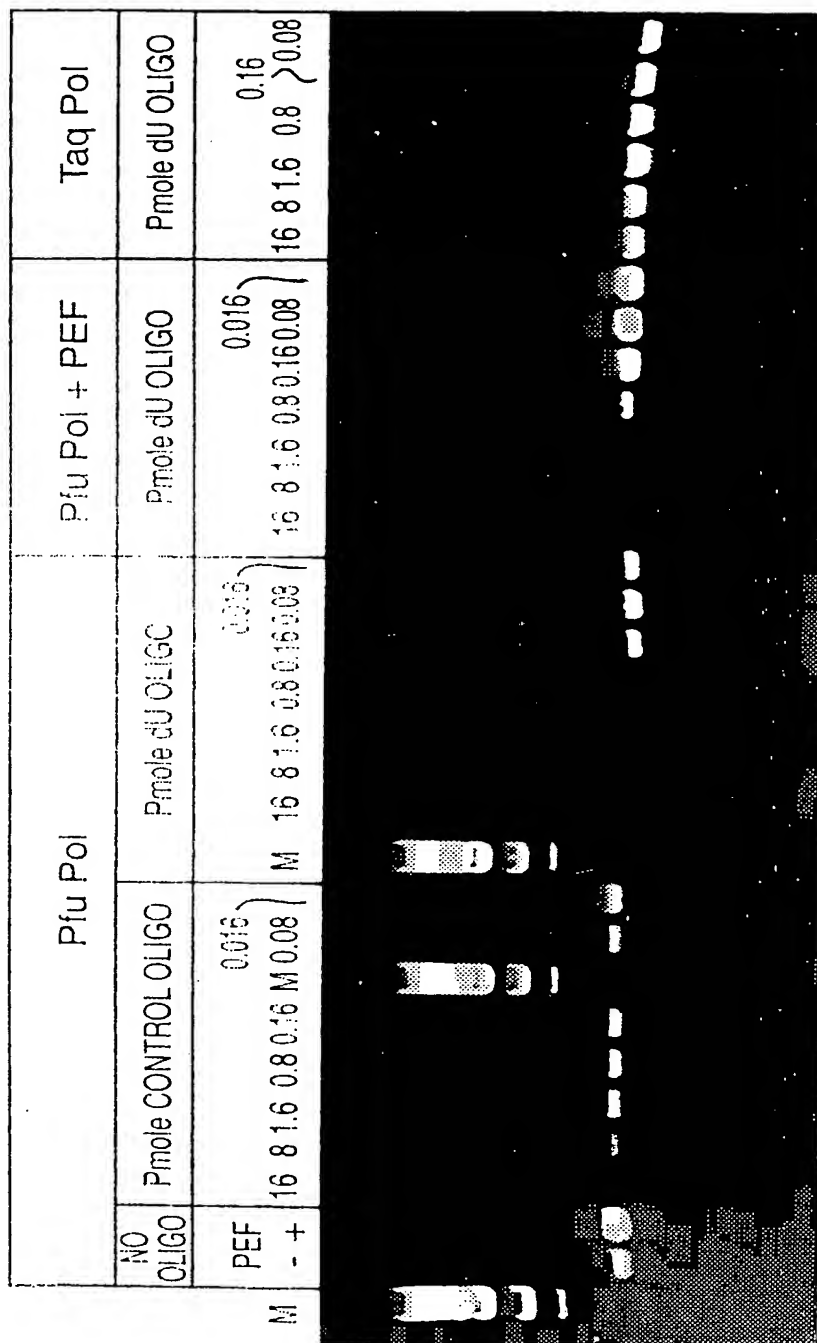


FIG. 22

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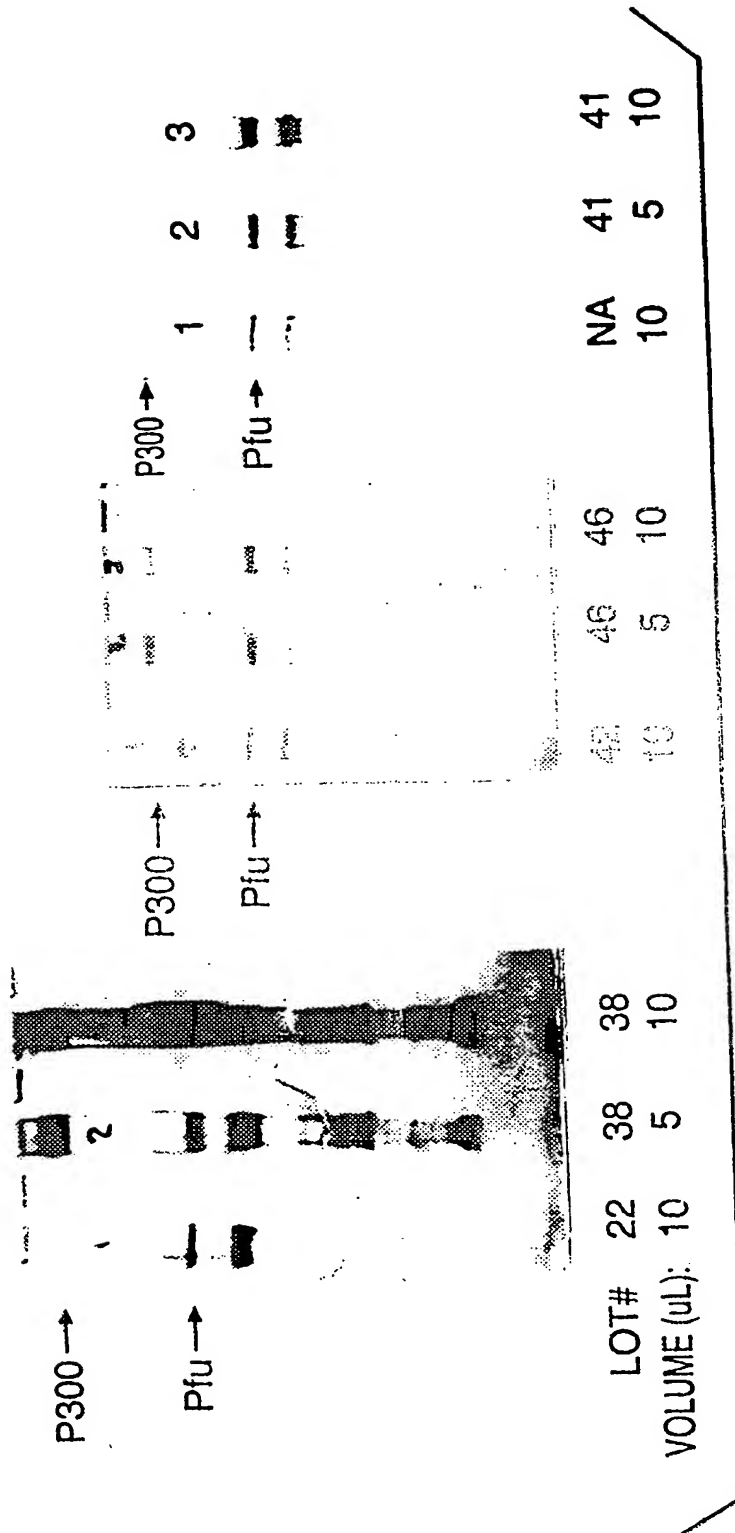


FIG. 24

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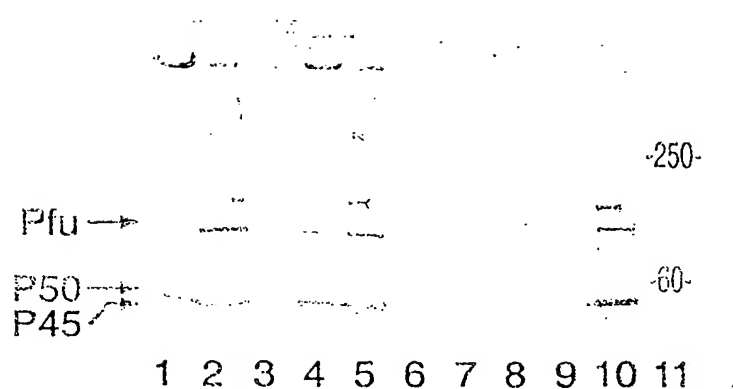


FIG. 25

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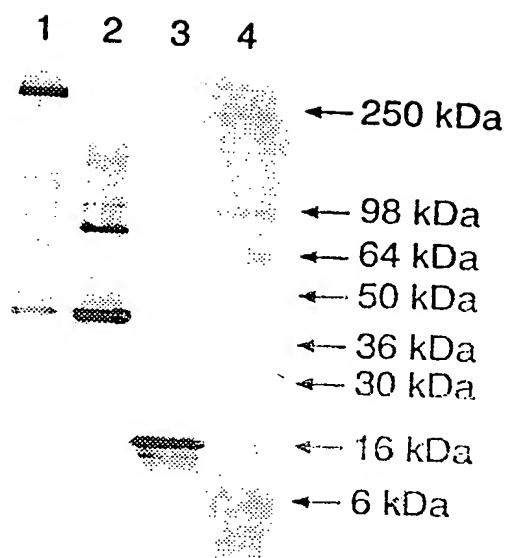


FIG. 26

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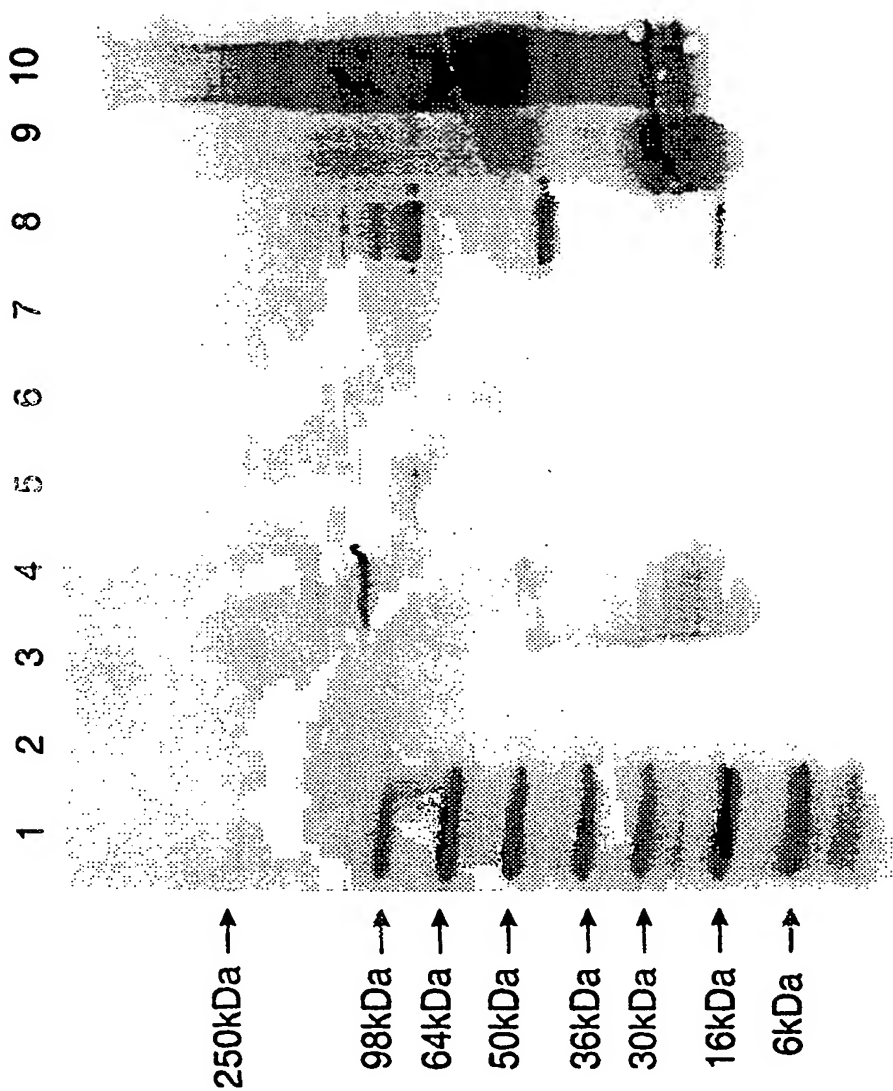


FIG. 27

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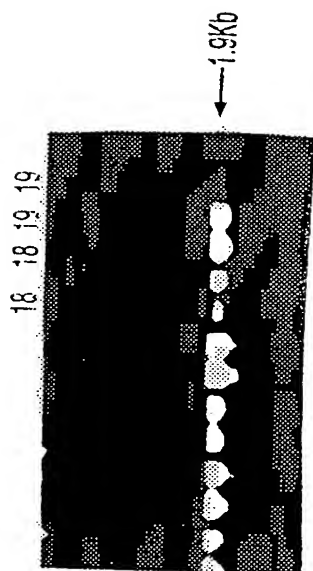
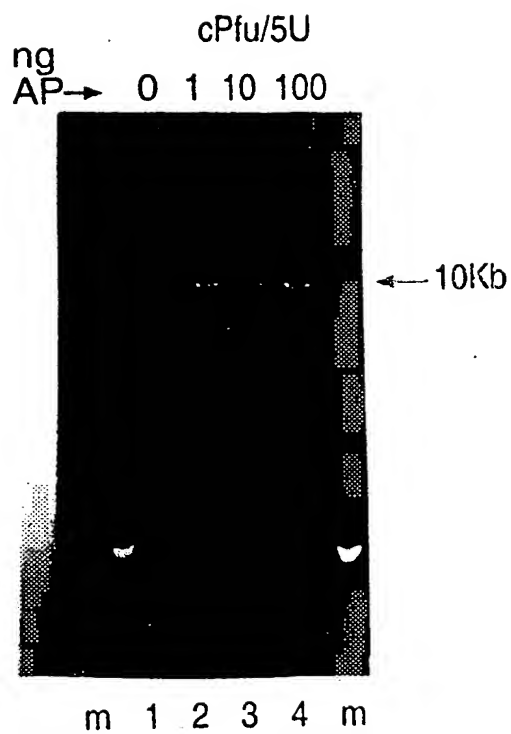


FIG. 28

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**FIG. 29**

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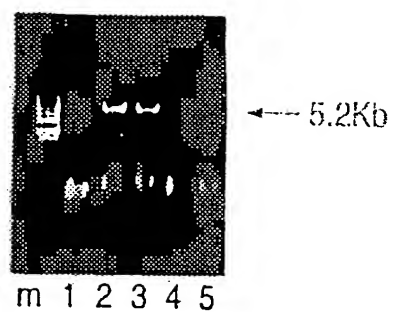


FIG. 30

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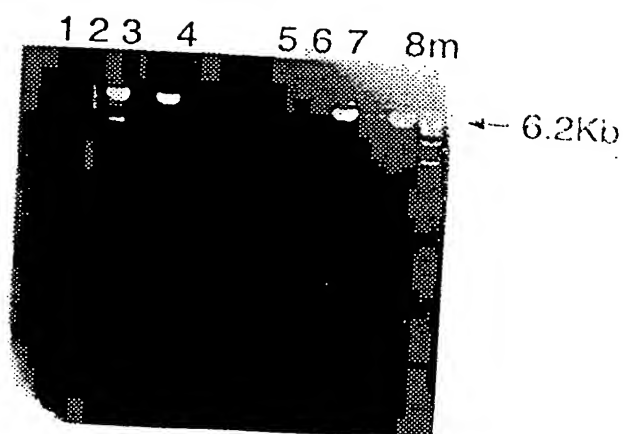


FIG. 31

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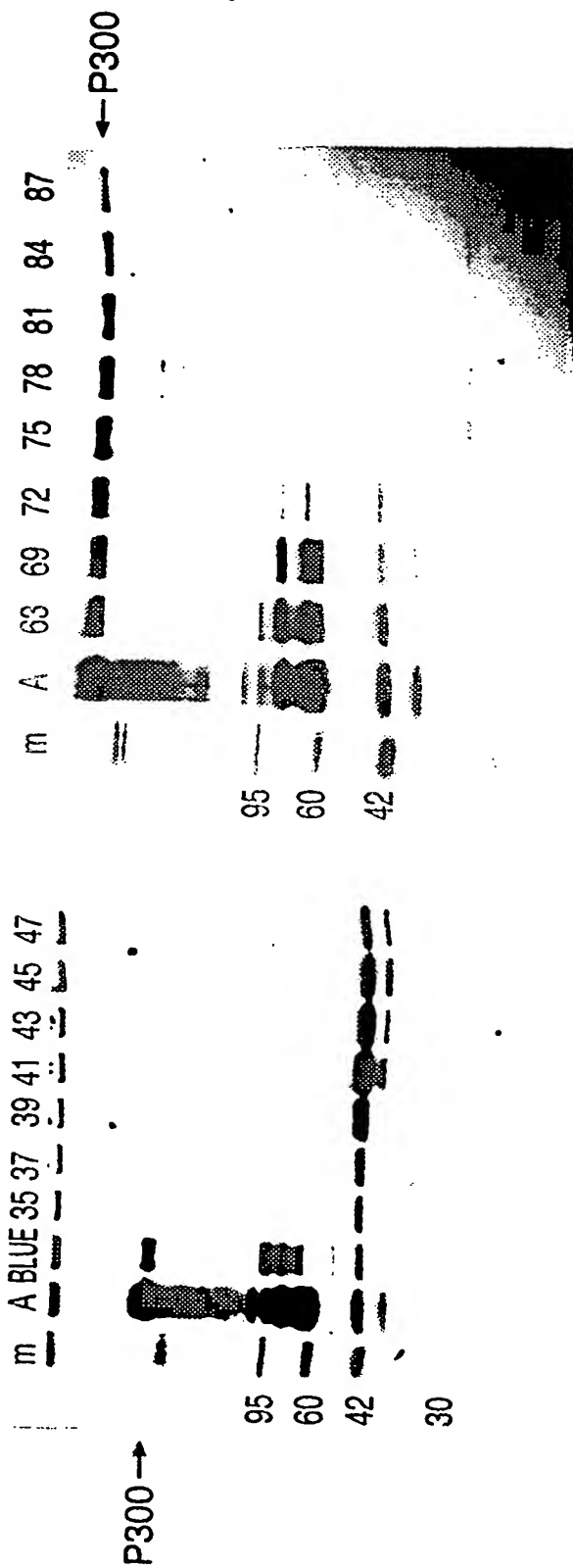


FIG. 32A

FIG. 32B

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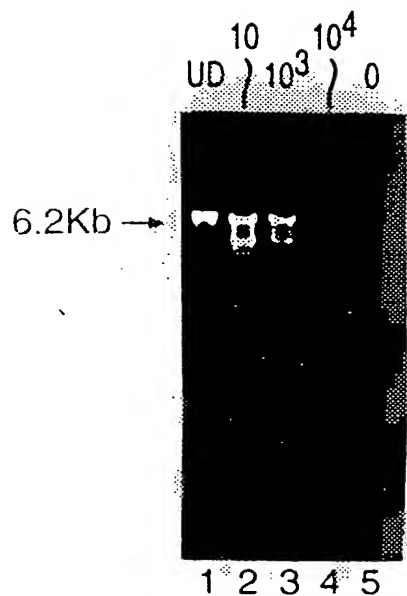


FIG. 33

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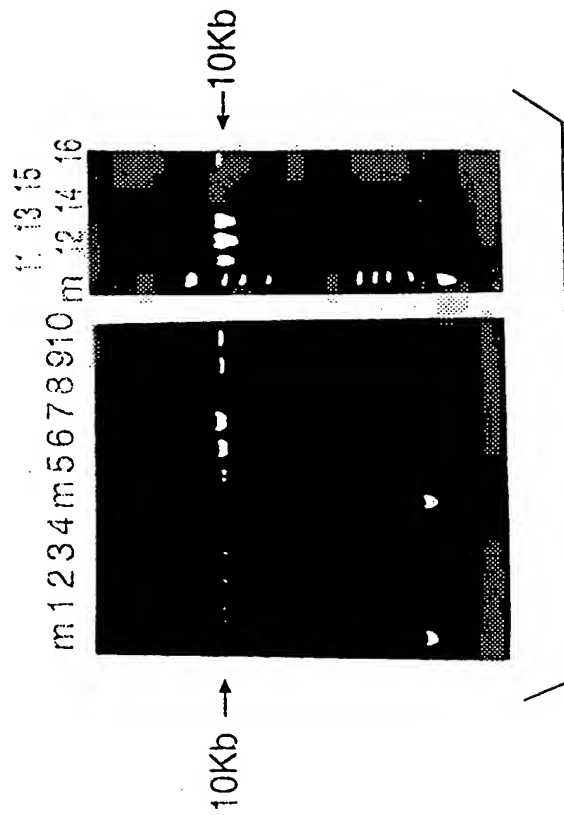
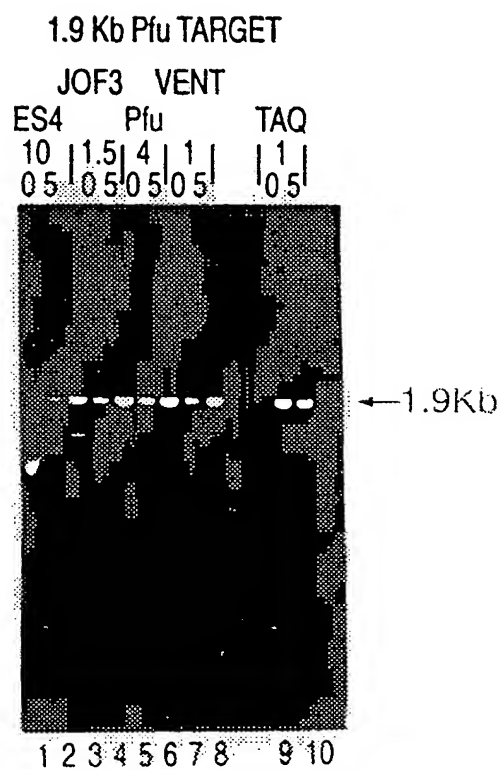


FIG. 34

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**FIG. 35**

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DEEP VENT USING 0.75u

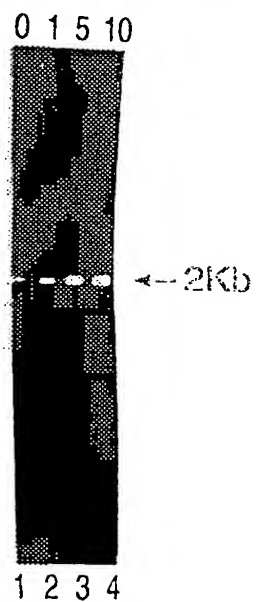


FIG. 36

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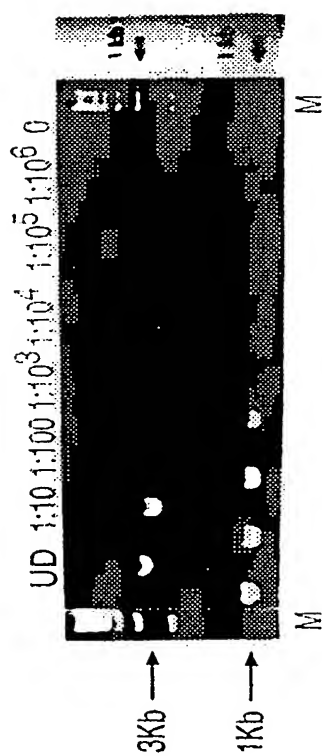
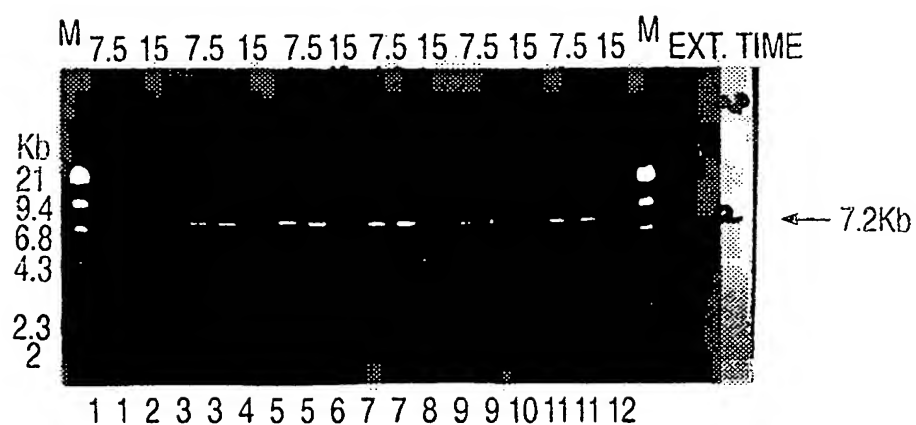


FIG. 37

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**FIG. 38**

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Pfu "PCR ENHANCER" IN QUICKCHANGE MUTAGENESIS

LINEAR AMPLIFICATION CONDITIONS				TRANSFORMATION RESULTS	
POL.	BUFFER	H.S. #75	AMPL. PROD.	#cfu	%MUTANTS
nPfu (#38)	nPfu	0	+	84	95
		1 μ 1	\pm	47	87
		.1 μ 1	+	154	97
		.01 μ 1	++	632	95
		.001 μ 1	+	484	94
nPfu (#24A)	nPfu	0	+	94	89
		1 μ 1	+	34	85
		.1 μ 1	+	173	91
		.01 μ 1	++	468	96
		.001 μ 1	+	230	90

FIG. 39

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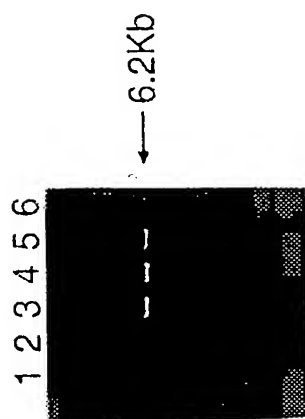
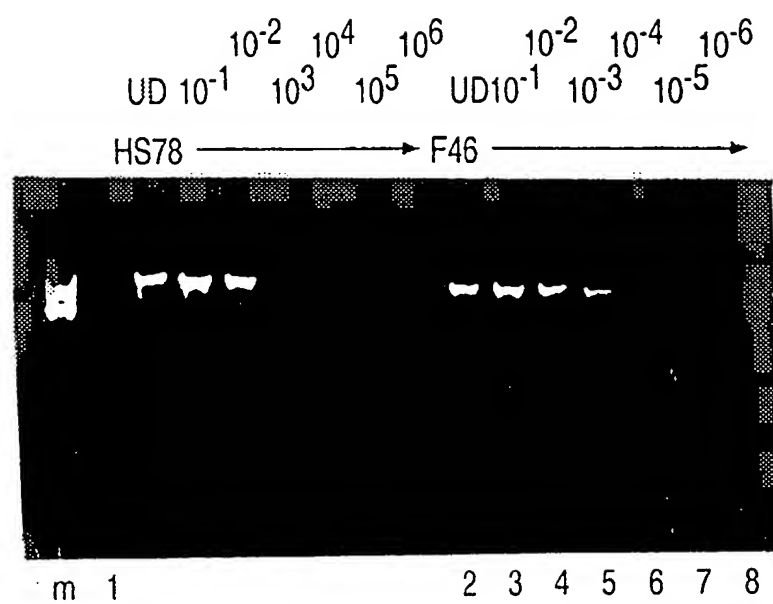


FIG. 40

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**FIG. 41**

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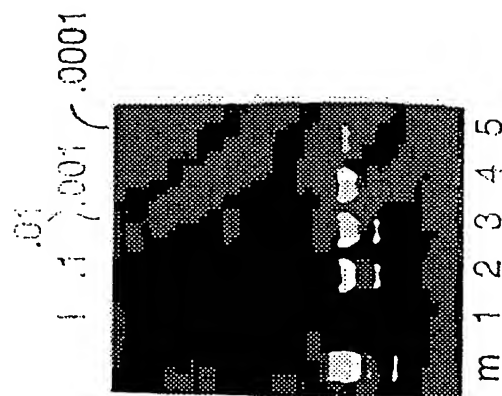
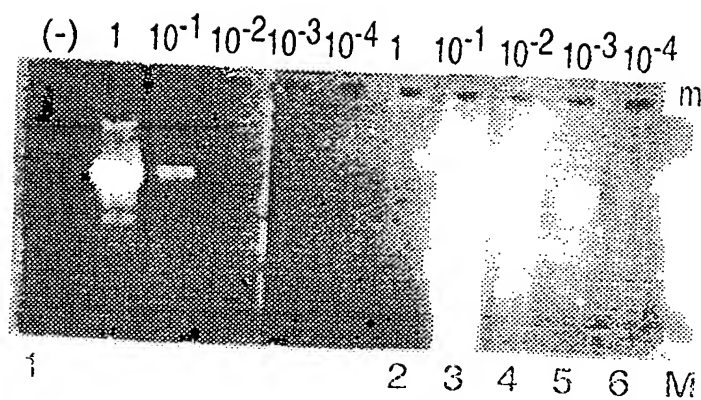


FIG. 42

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**FIG. 43**

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FIG. 44B



FIG. 44A